



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/995,866	11/26/2001	Akira Mase	0756-2401	3786

7590

06/04/2003

NIXON PEABODY LLP
8180 Greensboro Drive, Suite 800
McLean, VA 22102

EXAMINER

NGUYEN, HOAN C

ART UNIT

PAPER NUMBER

2871

DATE MAILED: 06/04/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/995,866

Applicant(s)

MASE, AKIRA

Examiner

HOAN C. NGUYEN

Art Unit

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2-9 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 2-9 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 3-9 have been considered but are moot in view of the new ground(s) of rejection.

Examiner employs different reference Hart (US4462883) filed on Sept. 1983 that is before the effective US filing date of this application on December 22, 1987.

Information Disclosure Statement

It should be appreciated that applicants send again **all the foreign references** in IDS filed on 11/26/2001, which can not be found in parent application 08/219853.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schuster-Wolden et al. (US4385976) in view of Hart (US4462883).

Schuster-Wolden et al. teach a display device comprising

- a substrate 3, which is conventionally made of glass

Art Unit: 2871

- a lead formed over the glass substrate, said lead comprising a first layer 18 and a second layer 17 formed on the first layer.

For printing pattern and low cost, first layer can be conventionally made by conducting paste (silver or gold), which is baked for drying and bonding to the substrate;

- an IC chip 16 provided over the glass substrate wherein a pad of the IC chip is electrically connected to the second layer of the lead (col. 3 lines 65-68).

Schuster-Wolden et al. fail to disclose a lead comprising a first layer comprising silver and a second layer comprising indium tin oxide formed on the first layer.

Hart discloses (col. 4 lines 9-27) the transparent electrically conductive film comprising a laminate of silver having an electronic conductive function and ITO layer for anti-reflecting with forming oxide over silver layer.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify display as Schuster-Wolden et al. disclosed with a lead comprising a first layer comprising silver and a second layer comprising indium tin oxide formed on the first layer for anti-reflecting with forming oxide over silver layer.

2. Claims 4-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schuster-Wolden et al. (US4385976) in view of Hart (US4462883) as applied to claim 2 above, and further in view of Takeda (US4680226).

Takeda teaches (col. 2 lines 53-64) the adhesive comprising epoxy resin and metal particles that can be Ni for providing high electrical conductivity.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify display as Schuster-Wolden et al. disclosed with the adhesive comprising epoxy resin and metal particles that can be Ni for providing high electrical conductivity.


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOAN C. NGUYEN whose telephone number is (703) 306-0472. The examiner can normally be reached on MONDAY-THURSDAY:8:00AM-4:30PM.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0530.

HOAN C. NGUYEN
Examiner
Art Unit 2871

chn
May 29, 2003


SUPERVISOR
MAY 29 2003